

B.A. & B.S. Mathematics

CONTENT KNOWLEDGE (Declarative Knowledge, Technical Skills): Graduates in mathematics will understand basic concepts in two core areas of mathematics: algebra and analysis. Graduates in mathematics will apply these concepts to concrete examples arising in both of these areas.

Both B.A. and B.S. mathematics majors are required to complete two capstone courses: Modern Algebra (MAS 4301) and Modern Analysis (MAA 4200). In each of these courses, students submit solutions to homework problems and take examinations designed to assess each student's knowledge of basic concepts and ability to use these concepts in particular applications.

COMMUNICATION (Written, Oral): Graduates in mathematics will produce writing that is well organized and grammatically correct, and they will express mathematical ideas clearly and concisely.

CRITICAL THINKING (Analytical skills): Graduates in mathematics will analyze and solve a variety of mathematical problems.

Both B.A. and B.S. mathematics majors are required to complete Mathematical Problem Solving (MAT 4937). In this course, students solve a wide variety of mathematical problems, write up and submit detailed solutions to these problems, and present solutions orally in class.